

1           A vaccine for active immunization of an equid  
2   against a *Sarcocystis neurona* infection comprising a  
3   recombinant polypeptide comprising one or more epitopes  
4   from *Sarcocystis neurona* antigens selected from the  
5   group consisting of a 16 ( $\pm 4$ ) kDa and a 30 ( $\pm 4$ ) kDa  
6   antigen.

1           A method for producing a fusion polypeptide *in*  
2   *vitro* comprising:

3           (a) providing a microorganism in a culture  
4   containing a DNA encoding the fusion polypeptide which  
5   comprises one or more epitopes from *Sarcocystis neurona*  
6   antigens selected from the group consisting of a 16 ( $\pm 4$ )  
7   kDa and a 30 ( $\pm 4$ ) kDa antigen linked to a polypeptide  
8   that facilitates isolation of the fusion polypeptide;

9           (b) culturing the microorganism in a culture  
10   to produce the fusion polypeptide; and

11          (c) isolating the fusion polypeptide from the  
12   *in vitro* culture.